Performance Data Sheet

AEA1338YXA

General Information

Model	AEA1338YXA	**Refrigerant**	R-134a
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	32.2°C (90°F) RETURN GAS	**Motor Type**	RSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	306	230	180	149	129	112	89.7
	Watts	96.6	94.7	91.0	85.5	78.0	68.5	56.8
	Amps	2.01	2.00	2.00	2.00	1.99	1.98	1.96
	Lb/h	3.80	2.85	2.23	1.85	1.60	1.38	1.11
-35	Btu/h	326	251	202	170	149	130	105
	Watts	100	98.9	95.9	91.3	84.9	76.6	66.3
	Amps	2.01	1.99	1.99	1.98	1.98	1.97	1.95
	Lb/h	4.05	3.12	2.50	2.11	1.85	1.61	1.31
-30	Btu/h	358	284	235	203	181	160	133
	Watts	105	104	102	98.1	92.7	85.6	76.8
	Amps	2.01	1.99	1.99	1.98	1.98	1.97	1.95
	Lb/h	4.45	3.53	2.92	2.52	2.24	1.99	1.65
-25	Btu/h	401	328	279	247	223	201	171
	Watts	111	111	109	106	102	95.7	88.2
	Amps	2.03	2.01	2.00	1.99	1.99	1.99	1.97
	Lb/h	4.99	4.08	3.47	3.07	2.78	2.49	2.13
-20	Btu/h	455	382	334	301	276	251	219
	Watts	118	118	117	115	111	107	100
	Amps	2.06	2.03	2.02	2.02	2.02	2.01	2.01
	Lb/h	5.66	4.76	4.15	3.74	3.43	3.13	2.73
-15	Btu/h	517	446	397	364	338	311	277
	Watts	126	126	126	124	122	118	114
	Amps	2.10	2.07	2.05	2.05	2.05	2.05	2.05
	Lb/h	6.45	5.55	4.95	4.53	4.21	3.88	3.45
-10	Btu/h	589	518	470	436	408	380	343
	Watts	134	135	135	135	133	131	127
	Amps	2.14	2.11	2.09	2.09	2.09	2.10	2.10
	Lb/h	7.34	6.46	5.86	5.44	5.10	4.74	4.27
-5	Btu/h	668	598	550	515	487	456	416
	Watts	144	145	146	146	146	144	142
	Amps	2.18	2.15	2.14	2.14	2.14	2.15	2.16
	Lb/h	8.34	7.47	6.87	6.44	6.08	5.70	5.20

0	Btu/h	754	685	637	602	572	539	496
	Watts	154	156	157	158	159	158	158
	Amps	2.23	2.20	2.18	2.19	2.20	2.21	2.23
	Lb/h	9.44	8.57	7.97	7.53	7.15	6.75	6.21
5	Btu/h	847	778	730	694	663	628	583
	Watts	165	167	169	171	172	173	174
	Amps	2.28	2.25	2.23	2.24	2.26	2.28	2.30
	Lb/h	10.6	9.76	9.15	8.70	8.31	7.88	7.31
10	Btu/h	945	877	829	792	759	723	674
	Watts	177	180	182	185	187	189	190
	Amps	2.33	2.29	2.28	2.29	2.31	2.34	2.38
	Lb/h	11.9	11.0	10.4	9.95	9.54	9.08	8.47

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.998052E+03	1.419440E+02	3.755448E+00	3.745034E+01
C2	1.172486E+01	2.852792E+00	2.196068E-02	1.507294E-01
C3	-5.621852E+01	1.497679E-02	-3.880488E-02	-7.018925E-01
C4	1.303057E-01	1.857467E-02	-8.275453E-05	1.762924E-03
C5	1.328620E-01	-2.306157E-02	-2.811493E-04	1.653960E-03
C6	4.564294E-01	3.119278E-03	3.098016E-04	5.698830E-03
C7	-1.059546E-03	-5.972267E-05	-2.345394E-06	-1.199734E-05
C8	-6.725734E-05	-3.795242E-05	1.186863E-06	-1.089915E-06
C9	-6.954036E-04	1.796578E-04	1.598743E-06	-8.731091E-06
C10	-1.303628E-03	-1.735117E-05	-7.881922E-07	-1.627982E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature